



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office

Address: Box ISSUE FEE  
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WASHINGTON, D.C. 20231

## NOTICE OF ALLOWANCE AND ISSUE FEE DUE

31M1/0401

CONRAD D GARDNER  
2600 2ND AVENUE  
SUITE 2103  
SEATTLE WA 98121

APPLICATION NO.	FILING DATE	TOTAL CLAIMS	EXAMINER AND GROUP ART UNIT	DATE MAILED
08/443,204	05/19/95	004	3106 04/01/97	
First Named Applicant: CONRAD D. GARDNER				

TITLE OF INVENTION: EXTENDED RANGE MOTOR VEHICLE HAVING AMBIENT POLLUTANT PROCESSING

ATTY'S DOCKET NO.	CLASS-SUBCLASS	BATCH NO.	APPLN. TYPE	SMALL ENTITY	FEE DUE	DATE DUE
3 95-084M	100-179.000	1.46	UTILITY YES	\$645.00	07/01/97	

**THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED.**

**THE ISSUE FEE MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED.**

### HOW TO RESPOND TO THIS NOTICE:

- I. Review the SMALL ENTITY status shown above.  
If the SMALL ENTITY is shown as yes, verify your current SMALL ENTITY status:

- A. If the status is changed, pay twice the amount of the FEE DUE shown and notify the Patent and Trademark Office of the change in status, or  
B. If the status is the same, pay the FEE DUE shown above.

If the SMALL ENTITY is shown as NO:

- A. Pay FEE DUE shown above, or

- B. File verified statement of Small Entity Status before, or with, payment of 1/2 the FEE DUE shown above.

- II. Part B of this notice should be completed and returned to the Patent and Trademark Office (PTO) with your ISSUE FEE. Even if the ISSUE FEE has already been paid by charge to deposit account, Part B should be completed and returned. If you are charging the ISSUE FEE to your deposit account, section "6b" of Part B should be completed.

- III. All communications regarding this application must give application number and batch number.  
Please direct all communication prior to issuance to Box ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER: Patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.**

## PART B—ISSUE FEE TRANSMITTAL

**MAILING INSTRUCTIONS:** This form should be used for transmitting the ISSUE FEE. Blocks 2 through 6 should be completed where appropriate. All further correspondence including the Issue Fee Receipt, the Patent, advance orders and notification of maintenance fees will be mailed to addressees entered in Block 1 unless you direct otherwise, by: (a) specifying a new correspondence address in Block 3 below; or (b) providing the PTO with a separate "FEE ADDRESS" for maintenance fee notifications with the payment of issue fee or thereafter. See reverse for Certificate of Mailing, below.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**Burden Hour Statement:** This form is estimated to take 0.2 hours to complete. Time will vary depending on the needs of the individual case. Any comments on the amount of time required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, D.C. 20231.

DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Box Issue Fee, Assistant Commissioner for Patents, Washington D.C. 20231

1. CORRESPONDENCE ADDRESS		2. INVENTOR(S) ADDRESS CHANGE (Complete only if there is a change)	
CONRAD G. GARDNER 2600 1ST AVENUE SUITE 1100 SEATTLE WA 98101		INVENTOR'S NAME	
		Street Address	
		City, State and Zip Code	
		CO-INVENTOR'S NAME	
		Street Address	
		City, State and Zip Code	
		<input type="checkbox"/> Check if additional changes are enclosed	

APPLICATION NO.	FILING DATE	TOTAL CLAIMS	EXAMINER AND GROUP ART UNIT	DATE MAILED
08/11/01	08/13/98	004	3105 04/01/97	
First Named Applicant		CONRAD G.		

TITLE OF INVENTION: **IMPROVED TOWNE MOTOR VEHICLE HAVING AMBIENT POLLUTANT PROCESSING**

ATTY'S DOCKET NO.	CLASS-SUBCLASS	BATCH NO.	APPLN. TYPE	SMALL ENTITY	FEE DUE	DATE DUE
0	100-173-400	L45	UTILITY	YES	\$645.00	07/01/97

3. Correspondence address change (Complete only if there is a change)

4. For printing on the patent front page, list the names of not more than 3 registered patent attorneys or agents OR, alternatively, the name of a firm having as a member a registered attorney or agent. If no name is listed, no name will be printed.

1	_____
2	_____
3	_____

5. ASSIGNMENT DATA TO BE PRINTED ON THE PATENT (print or type)

(1) NAME OF ASSIGNEE
(2) ADDRESS (CITY & STATE OR COUNTRY)

6a. The following fees are enclosed:
<input type="checkbox"/> Issue Fee <input type="checkbox"/> Advance Order - # of Copies _____
6b. The following fees should be charged to:
DEPOSIT ACCOUNT NUMBER _____
(ENCLOSE A COPY OF THIS FORM)
<input type="checkbox"/> Issue Fee <input type="checkbox"/> Advance Order - # of Copies _____
<input type="checkbox"/> Any deficiencies in Enclosed Fees

A. ☐ This application is NOT assigned.

☐ Assignment previously submitted to the Patent and Trademark Office.

☐ Assignment is being submitted under separate cover. Assignment should be directed to Box ASSIGNMENTS.

PLEASE NOTE: Unless an assignee is identified in Block 5, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the PTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

The COMMISSIONER OF PATENTS AND TRADEMARKS is requested to apply the issue fee to the application identified above.

(Authorized Signature) \_\_\_\_\_ (Date) \_\_\_\_\_

NOTE: The Issue Fee will not be accepted from anyone other than the applicant, a registered attorney or agent, or the assignee or other party in interest as shown by the records of the Patent and Trademark Office.

## Certificate of Mailing

Note: If this certificate of mailing is used, it can be used to transmit the Issue Fee. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing.

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to:

Box ISSUE FEE  
Assistant Commissioner for Patents  
Washington, D.C. 20231

on: \_\_\_\_\_ (Date)  
\_\_\_\_\_ (Name of person making deposit)  
\_\_\_\_\_ (Signature)  
\_\_\_\_\_ (Date)

MAR-26-02 TUE 13:10

JOHN W HATHAWAY PLLC

FAX NO. 2648144

P. 04/25



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
Address: COMMISSIONER OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

SERIAL NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NO.
08/443,204	05/18/95	GARDNER	C 95-004M
			EXAMINER
31M1/0A01			
CONRAD O GARDNER 2600 2ND AVENUE SUITE 2103 SEATTLE WA 98121			ART UNIT PAPER NUMBER 14
			3106

DATE MAILED:

## NOTICE OF ALLOWABILITY

## PART I.

1. ☒ This communication is responsive to Amendment filed 2-13-97
2. ☒ All the claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice Of Allowance And Issue Fee Due or other appropriate communication will be sent in due course.
3. ☒ The allowed claims are 30-33
4. ☐ The drawings filed on \_\_\_\_\_ are acceptable.
5. ☐ Acknowledgment is made of the claim for priority under 35 U.S.C. 119. The certified copy has [...] been received. [...] not been received. [ ] been filed in parent application Serial No. \_\_\_\_\_, filed on \_\_\_\_\_
6. ☒ Note the attached Examiner's Amendment.
7. ☒ Note the attached Examiner Interview Summary Record, PTOL-413.
8. ☐ Note the attached Examiner's Statement of Reasons for Allowance.
9. ☐ Note the attached NOTICE OF REFERENCES CITED, PTO-892.
10. ☐ Note the attached INFORMATION DISCLOSURE CITATION, PTO-1449.

## PART II.

A SHORTENED STATUTORY PERIOD FOR RESPONSE to comply with the requirements noted below is set to EXPIRE THREE MONTHS FROM THE "DATE MAILED" indicated on this form. Failure to timely comply will result in the ABANDONMENT of this application. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

1. ☐ Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL APPLICATION, PTO-152, which discloses that the oath or declaration is deficient. A SUBSTITUTE OATH OR DECLARATION IS REQUIRED.
2. ☒ APPLICANT MUST MAKE THE DRAWING CHANGES INDICATED BELOW IN THE MANNER SET FORTH ON THE REVERSE SIDE OF THIS PAPER.
- a. ☒ Drawing informalities are indicated on the NOTICE RE PATENT DRAWINGS, PTO-948, attached hereto or to Paper No. \_\_\_\_\_. CORRECTION IS REQUIRED.
- b. ☐ The proposed drawing correction filed on \_\_\_\_\_ has been approved by the examiner. CORRECTION IS REQUIRED.
- c. ☐ Approved drawing corrections are described by the examiner in the attached EXAMINER'S AMENDMENT. CORRECTION IS REQUIRED.
- d. ☐ Formal drawings are now REQUIRED.

Any response to this letter should include in the upper right hand corner, the following information from the NOTICE OF ALLOWANCE AND ISSUE FEE DUE: ISSUE BATCH NUMBER, DATE OF THE NOTICE OF ALLOWANCE, AND SERIAL NUMBER.

## Attachments:

- ☒ Examiner's Amendment  
☒ Examiner Interview Summary Record, PTOL-413  
☐ Reasons for Allowance  
☐ Notice of References Cited, PTO-892  
☐ Information Disclosure Citation, PTO-1449

- ☐ Notice of Informal Application, PTO-152  
☒ Notice re Patent Drawings, PTO-948  
☐ Listing of Bonded Draftsmen  
☐ Other

Form PTO 948 (Rev. 10-9-01)

U.S. DEPARTMENT OF COMMERCE - Patent and Trademark Office

Application No. 443204

## NOTICE OF DRAFTSPERSON'S PATENT DRAWING REVIEW

PTO Draftpersons review all originally filed drawings regardless of whether they are designated as formal or informal. Additionally, patent Examiners will review the drawings for compliance with the regulations. Direct telephone inquiries concerning this review to the Drawing Review Branch, 763-305-8404.

The drawings filed (insert date) 5/18/95 are not objected to by the Draftperson under 37 CFR 1.84 or 1.152. If objected to by the Draftperson under 37 CFR 1.84 or 1.152, the Examiner will require amendment of views, correction of drawings when necessary. Corrected drawings must be submitted according to the instructions on the back of this notice.

1. DRAWINGS. 37 CFR 1.84(a). Acceptable drawings must be:
  - Black ink. Color.
  - Not black solid lines. Fig(s) \_\_\_\_\_
  - Color drawings are not acceptable. Fig(s) \_\_\_\_\_
2. PHOTOGRAPHY. 37 CFR 1.84(b).
  - Photographs are not acceptable until properly mounted. Fig(s) \_\_\_\_\_
  - Photographs not properly mounted. Fig(s) \_\_\_\_\_
  - Photographic double-weight paper. Fig(s) \_\_\_\_\_
  - Poor quality (half tone). Fig(s) \_\_\_\_\_
3. GRAPHIC FORMS. 37 CFR 1.84(c).
  - Chemical or mathematical formula not labeled as separate figure. Fig(s) \_\_\_\_\_
  - Group of waveforms not presented as a single figure, using common vertical axis with time extending along horizontal axis. Fig(s) \_\_\_\_\_
  - Individual waveform not identified with a separate letter designation adjacent to the vertical axis. Fig(s) \_\_\_\_\_
4. TYPE OF PAPER. 37 CFR 1.84(d).
  - Paper not flexible, strong, white, smooth, nonshiny, and durable. Sheet(s) \_\_\_\_\_
  - Erasures, alterations, overwritings, interlacations, cracks, creases, and folds copy machine marks not accepted. Fig(s) \_\_\_\_\_
  - Mylar, velum paper is not acceptable (too thin). Fig(s) \_\_\_\_\_
5. SIZE OF PAPER. 37 CFR 1.84(f). Acceptable sizes:
  - 21.6 cm. by 35.6 cm. (8 1/2 by 14 inches)
  - 21.6 cm. by 33.1 cm. (8 1/2 by 13 inches)
  - 21.6 cm. by 27.9 cm. (8 1/2 by 11 inches)
  - 21.0 cm. by 29.7 cm. (DIN size A4)
  - All drawing sheets not the same size. Sheet(s) \_\_\_\_\_
  - Drawing sheet not an acceptable size. Sheet(s) \_\_\_\_\_
6. MARGINS. 37 CFR 1.84(g). Acceptable margins:

## Paper size

21.6 cm. X 35.6 cm. (8 1/2 X 14 inches) (R 1/2 X 11 inches) (DIN Size A4)	21.6 cm. X 33.1 cm. (8 1/2 X 13 inches)	21.6 cm. X 27.9 cm. (8 1/2 X 11 inches)	21.0 cm. X 29.7 cm. (DIN Size A4)
T 5.1 cm. (2")	3.5 cm. (1 1/4")	2.5 cm. (1")	2.5 cm.
L .64 cm. (1/4")	.64 cm. (1/4")	.64 cm. (1/4")	2.5 cm.
R .64 cm. (1/4")	.64 cm. (1/4")	.64 cm. (1/4")	1.5 cm.
B .64 cm. (1/4")	.64 cm. (1/4")	.64 cm. (1/4")	1.0 cm.

Margins do not conform to chart above.

Sheet(s) \_\_\_\_\_  
 Top (T) \_\_\_\_\_ Left (L) \_\_\_\_\_ Right (R) \_\_\_\_\_ Bottom (B) \_\_\_\_\_

7. VIEWS. 37 CFR 1.84(h).
  - REMARK: Specification may require revision to correspond to drawing changes.
  - All views not grouped together. Fig(s) \_\_\_\_\_
  - Views connected by projection lines or lead lines. Fig(s) \_\_\_\_\_
  - Partial views. 37 CFR 1.84(h)(2)

View and enlarged view not labeled separately or properly

Fig(s) \_\_\_\_\_

Sectional views. 37 CFR 1.84(h)(3)

Hatching not indicated for sectional portions of an object

Fig(s) \_\_\_\_\_

Cross section not drawn with a center with projection lines

Fig(s) \_\_\_\_\_

Wavy lines do not appear in horizontal, left to right, or top to bottom

Fig(s) \_\_\_\_\_

Scale not large enough to show mechanism with crosshatching

Fig(s) \_\_\_\_\_

Indication such as "not to scale" or "not to scale" not permitted

Fig(s) \_\_\_\_\_

10. CHARACTER OF LINES. 37 CFR 1.84(h)(4).

Lines, numbers &amp; letters not uniformly thick and well defined

Fig(s) \_\_\_\_\_

Clean, durable and black (except for color drawings)

Fig(s) \_\_\_\_\_

11. SHADING. 37 CFR 1.84(m)

Solid black shading areas not permitted.

Fig(s) \_\_\_\_\_

Shade lines, pale, rough and blurred. Fig(s) \_\_\_\_\_

12. NUMBERS, LETTERS, & REFERENCE CHARACTERS. 37 CFR 1.84(p)

Numbers and reference characters not plain and legible. 37 CFR 1.84(p)(1) Fig(s) \_\_\_\_\_

Numbers and reference characters not oriented in same direction as the view. 37 CFR 1.84(p)(1) Fig(s) \_\_\_\_\_

English alphabet not used. 37 CFR 1.84(p)(2)

Fig(s) \_\_\_\_\_

Numbers, letters, and reference characters do not measure at least .32 cm. (1/8 inch) in height. 37 CFR(p)(3)

Fig(s) \_\_\_\_\_

13. LEAD LINES. 37 CFR 1.84(q)

Lead lines cross each other. Fig(s) \_\_\_\_\_

Lead lines missing. Fig(s) \_\_\_\_\_

14. NUMBERING OF SHEETS OF DRAWINGS. 37 CFR 1.84(r)

Sheets not numbered consecutively, and in Arabic numerals, beginning with number 1. Sheet(s) \_\_\_\_\_

15. NUMBER OF VIEWS. 37 CFR 1.84(s)

Views not numbered consecutively, and in Arabic numerals, beginning with number 1. Fig(s) \_\_\_\_\_

View numbers not preceded by the abbreviation Fig. Fig(s) \_\_\_\_\_

16. CORRECTIONS. 37 CFR 1.84(w)

Corrections not made from prior PTO-948. Fig(s) \_\_\_\_\_

17. DESIGN DRAWING. 37 CFR 1.152

Surface shading shown not appropriate. Fig(s) \_\_\_\_\_

Solid black shading not used for color contrast. Fig(s) \_\_\_\_\_

## COMMENTS:

REVIEWER

DATE

ATTACHMENT TO PAPER NO. 14  
 Received from < 2648144 > at 3/26/02 4:08:33 PM [Eastern Standard Time]

BEST AVAILABLE COPY



UNITED STATES DEPARTMENT OF COMMERCE  
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Washington, D.C. 20231

SERIAL NUMBER	FILED DATE	CLASS	FIRST NAMED APPLICANT	INVENTOR	ATTORNEY DOCKET NO.
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CONRAD D GARDNER  
2600 2ND AVENUE  
SUITE 2103  
SEATTLE WA 98121

31R1/0401

SER. #

EXAMINER

3106

ART UNIT

PAPER NUMBER

04/01/97  
DATE MAILED:

13

## EXAMINER INTERVIEW SUMMARY RECORD

All participants (applicant, applicant's representative, PTO personnel):

(1) Conrad Gardner (3) \_\_\_\_\_  
(2) \_\_\_\_\_ (4) \_\_\_\_\_

Date of interview March 31, 1997

Type: ☒ Telephonic ☐ Personal (copy is given to ☐ applicant ☐ applicant's representative).

Exhibit shown or demonstration conducted: ☐ Yes ☒ No. If yes, brief description: \_\_\_\_\_

Agreement ☒ was reached with respect to some or all of the claims in question: ☐ was not reached.

Claims discussed: New claims 30-33

Identification of prior art discussed: \_\_\_\_\_

Description of the general nature of what was agreed to if an agreement was reached, or any other comments: New claims drawn to the CO and pollutant level responsive means on the vehicle would be allowable and would be entered by examiner's amendment.

(A fuller description, if necessary, and a copy of the amendments, if available, which the examiner agreed would render the claims allowable must be attached. Also, where no copy of the amendments which would render the claims allowable is available, a summary thereof must be attached.)

☒ 1. It is not necessary for applicant to provide a separate record of the substance of the interview.

Unless the paragraph below has been checked to indicate to the contrary, A FORMAL WRITTEN RESPONSE TO THE LAST OFFICE ACTION IS NOT WAIVED AND MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW (e.g., items 1-7 on the reverse side of this form). If a response to the last Office action has already been filed, then applicant is given one month from this interview date to provide a statement of the substance of the interview.

☐ 2. Since the examiner's interview summary above (including any attachments) reflects a complete response to each of the objections, rejections and requirements that may be present in the last Office action, and since the claims are now allowable, this completed form is considered to fulfill the response requirements of the last Office action. Applicant is not relieved from providing a separate record of the substance of the interview unless box 1 above is also checked.

Michael R. R...  
Examiner's Signature

All examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

New claims 30-33 have been entered as follows:

30. In combination, a hybrid motor vehicle comprising:

an electric motor connected to a first pair of wheels;

a cruise mode control circuit having preprogrammed cruise mode operating conditions, said control circuit automatically activating first coupling means for connecting a combustion engine to a second pair of wheels during a cruise mode on condition and deactivating said first coupling means during a cruise mode off condition, and said control circuit activating second coupling means for connecting said combustion engine to an electric generator for charging a battery during the cruise mode off condition;

a CO detector mounted on said vehicle for measuring the CO level in the vicinity of said vehicle;

a vehicle mounted transmitter for transmitting a signal indicative of the CO level measured by the CO detector;

an interactive information network located at a location remote from said motor vehicle, said network having receiver means for receiving said signal from said vehicle and transmitter means for transmitting a control signal to a receiver mounted on said vehicle when the measured CO level exceeds a predetermined level; and

control means responsive to the received control signal from said network for switching the cruise control circuit to the cruise mode off condition.